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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,229	07/11/2003	Carlton G. Bale	29766-69245	4407	
30450	7590 06/29	05	EXAM	IINER	
CUMMINS, INC.			MILLER, CA	MILLER, CARL STUART	
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INDIANAPO	LIS, IN 46204		ART UNIT	PAPER NUMBER	
	•		3747		

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		51'
	Application No.	Applicant(s)
	10/618,229	BALE ET AL.
Office Action Summary	Examiner	Art Unit
	Carl S. Miller	3747
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by s  Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a sin. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on (	07 April 2005.	
,	This action is non-final.	
3) Since this application is in condition for all		ers, prosecution as to the merits is
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.
Disposition of Claims		•
4)⊠ Claim(s) <u>1-26</u> is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5) Claim(s) is/are allowed.	·	
6)⊠ Claim(s) <u>1-26</u> is/are rejected.		•
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers	·	
9)☐ The specification is objected to by the Exar	miner.	
10) The drawing(s) filed on is/are: a)	accepted or b) □ objected to	by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the co	orrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		·
<ul> <li>12) ☐ Acknowledgment is made of a claim for for</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority documents.</li> </ul>		; 119(a)-(d) or (f).
2.☐ Certified copies of the priority document		onlication No
3. Copies of the certified copies of the		• • • • • • • • • • • • • • • • • • • •
application from the International Bu		Toolived in the Hational Stage
* See the attached detailed Office action for a	, , , ,	received.
	· ·	
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	• —	s)/Mail Date
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date</li> </ol>	6) Other:	nformal Patent Application (PTO-152)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all Claims 1-10 and 12-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Converse in view of McCarthy.

Converse teaches testing and engine which is stationary (since it is taken from an assembly line) and therefore the vehicle speed would necessarily be zero. An examination of applicant's specification shows that his <u>low load</u> requirement is merely a requirement that the vehicle <u>is</u> stationary and therefore does not carry the load of the vehicle weight. Thus, all of the claims including this language have been interpreted as simply requiring a non-moving engine. This does not mean, however, that the load is not increased via large throttle positions, as is the case in the testing used by Converse.

Converse tests under various load (i.e. fuel demand) conditions, while the engine remains under low loads <u>as</u> defined in applicant's specification. Idle speeds as well as high speeds are used. Converse does not describe a modern fuel injection system however but he does not exclude such a system either.

McCarthy teaches a modern injection system using an accumulator pressure sensor, vehicle speed sensor and an engine speed sensor. The system checks for leaks in various speed ranges and includes means for settling target speeds and target

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pressures. High pressures are used for higher loads and it would have been obvious not to exceed the maximum pressure of the rail (216) since this would always result system failure.

It would have been obvious to modify Converse by using the system of McCarthy to run the engine since this was the modern norm and by insuring that the engine is not moving by checking the vehicle speed sensor because Converse <u>only</u> tests the engine when it stationary.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Converse and McCarthy as applied to claim 1 above, and further in view of Armstrong.

Armstrong clearly uses an auxiliary computer to run tests on a stationary engine and, since this has become a common engine testing technique, it would have been obvious to one of ordinary skill in the art to apply the technique to Converse.

Applicant's arguments filed April 14, 2005 have been fully considered but they are not persuasive.

In particular, applicant's comments regarding the low load limitations he says the examiner is reading into the claims is not really relevant to the teachings of the references. The examiner merely points out that applicant's system is only under low load because the engine is not carrying the weight of the vehicle. This is also true in Converse.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl Miller whose telephone number is (571) 272-4849. The examiner can normally be reached on MTWTHF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen, can be reached at 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carl S. Miller Primary Examins?